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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/765,746	01/27/2004		Shilin Chen	074263.0211 (SC-98-025 C3	2473	
31625	7590	08/01/2005		EXAM	EXAMINER	
BAKER BO			WALKER, ZAK	WALKER, ZAKIYA NICOLE		
		VD., SUITE 1500	ART UNIT	PAPER NUMBER		
AUSTIN, TX		•	3676			

DATE MAILED: 08/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/765,746	CHEN, SHILIN				
Office Action Summary	Examiner	Art Unit				
	Zakiya N. Walker	3676				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was preply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
,						
3) Since this application is in condition for allowan						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) 1-9 is/are allowed.						
6)⊠ Claim(s) <u>10-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		•				
Attachment(s)	. □	(DTO 442)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 01272004,09092004 12 15 2 004		atent Application (PTO-152)				
S. Patent and Trademark Office 01312005						

Part of Paper No./Mail Date 07272005

Application/Control Number: 10/765,746 Page 2

Art Unit: 3676

DETAILED ACTION

Interference

1. The request for an interference with US Patent Application 10/410,470 is acknowledged. However, since neither the instant application nor the US 10/410,470 application have matured into a US patent, there will be no interference proceeding at this time.

Specification

- 2. The abstract of the disclosure is objected to because the last sentence recites purported merits. Correction is required. See MPEP § 608.01(b).
- 3. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Application/Control Number: 10/765,746

Art Unit: 3676

Extensive mechanical and design details of apparatus should not be given.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 10-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Garcia et al. (US# 5,967,245, cited by applicant).

Garcia et al. discloses a bit that includes, with respect to claim 10, a roller cone drill bit, comprising: a bit body 12; three roller cones (14-16) attached to said bit body and able to rotate with respect to said bit body; and a plurality of cutting elements (70, 80-83) arranged on each of the cones so that cutting elements on adjacent cones intermesh between the adjacent cones, the cutting elements being arranged such that an amount of work performed (axial force multiplied by strike distance) by each cone during drilling is substantially the same as the work performed by each of the other cones. With respect to depending claims 11-18, the reference teaches the limitations as claimed, including axial (normal) force substantially balanced, same projected area for each cone, same depth of penetration for each cone, distribution of axial force optimized (for maximum ROP), superhard tungsten carbide inserts (70, 80-83), and

Art Unit: 3676

milled teeth with hardface coating 120, 121. See entire document, especially columns 8
12. With respect to claim 19, the reference discloses a roller cone drill bit, comprising: a bit body 12; three roller cones (14-16) attached to said bit body and able to rotate with respect to said bit body; a plurality of cutting elements (70, 80-83) arranged on each of the cones so that cutting elements on adjacent cones intermesh between the adjacent cones, the cutting elements being arranged such that a distribution of axial force on the bit is optimized. With respect to depending claims 19-27, the reference teaches the limitations as claimed, including axial (normal) force substantially balanced, same projected area for each cone, same depth of penetration for each cone, same work performed by each cone, superhard tungsten carbide inserts (70, 80-83), and milled teeth with hardface coating 120, 121.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Application/Control Number: 10/765,746 Page 5

Art Unit: 3676

7. Claims 12, 13, 22, and 23 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 3, 12, 5, and 14 of copending Application No. 10/765,695. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented. The claims are considered conflicting even though they list structure in the form of A, B, C, D versus A, B, D, C. Since these are apparatus claims, the scope of the claims remain the same, and the order of elements listed is irrelevant.

Allowable Subject Matter

8. Claims 1-9 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zakiya N. Walker whose telephone number is (571) 272-7039. The examiner can normally be reached on Monday-Friday, 8:30 AM-5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on (571) 272-6843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3676

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Zakiya N. Walker Primary Examiner Art Unit 3676

zw July 27, 2005